

REMARKS

The specification has been amended to make reference to FIG. 4 in the Brief Description of the Drawings to conform to the text describing FIGs. 3 and 4.

Claim 1 has been amended to clarify the claimed invention relative to Wright. In Wright as shown in FIG. 3, an input sample $V_m(t)$ is processed by accessing a look-up table, and each element of the look-up table stores a set of filter coefficients used to predistort the input sample $V_m(t)$. The table is indexed in one dimension (e.g. rows) by $V_m(t)$, and is simultaneously indexed in a second dimension (e.g. columns) by the integrated magnitude, filtered magnitude or time averaged magnitude (or a combination thereof) of the past input signal $V_m(t)$. Wright also describes using a one-dimensional table, but in such an embodiment, a complete set of filter coefficients would be accessed solely on an instantaneous attribute of the input signal. See Column 11, line 36- column 12, line 15. As such, all filter coefficients produced to process the current input signal sample and time offset input samples will be dependent on at least the current input signal sample as would the result of a multiplication with a coefficient of the set of coefficients.

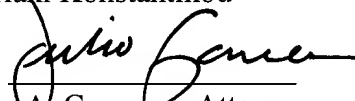
Claim 1 has been amended to call for “using said current input sample to produce a first sample output value dependent on said current input sample and independent of said time spaced input sample” and “using said time spaced input sample to produce a second sample output value dependent on said time spaced input sample and independent of said current input sample.” In Wright, the complete set of filter coefficients is selected dependent upon the current input signal sample. If a multi-dimensional table is used, then the complete set of filter coefficients is selected dependent on both the input signal $V_m(t)$ and the past input signal $V_m(t)$. Consequently, the results of the multiplications of the filter coefficients by the current input signal samples and the time offset input signal samples are all dependent on at least the current input signal

In view of the above, applicants respectfully request reconsideration and allowance. In the event of any fees inadvertently omitted or any improper payment of

fees, the Commissioner is hereby authorized to charge or credit Lucent Technologies Deposit Account No.12-2325 to correct the error now or during the pendency of this application.

If the Examiner has any questions or feels that a telephone conversation would be helpful, please contact Julio Garceran at (908) 582-7294.

Respectfully submitted,
Charles Robert Giardina
Jaehyeong Kim
Kyriaki Konstantinou

By: 
Julio A. Garceran, Attorney
Reg. No. 37,138
Lucent Technologies Inc.

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